

Year 3- Let there be Light!



End Points:

- Know that there are natural and artificial sources of light
- Know that some materials are transparent, some are opaque and some are translucent.
- Know that some materials reflect light.
- Know that the sunlight can be dangerous and we must protect our eyes
- Know a shadow is formed when the light is blocked.
- Know that the changing distance of the light source to an object will affect the size of the shadow.

Prior Learning Future Learning



Y2 Properties of Materials - the children will have identified materials with transparent and opaque properties.

Y1 Seasonal Changes – the children will already have been taught that it is not safe to look directly at the sun.

Y6 Seeing is Believing - the children will be taught to recognise that light appears to travel in straight lines and use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.

How you can help at home:

- Discuss sun safety
- Discuss use of blackout curtains.
- Observe shadows changing shape over the day in the sun

Key Vocabulary

Word	Definition
light	A form of energy that stimulates sight and makes things visible.
source	A place, person, or thing from which something originates or can be obtained.
luminous	Emitting light; bright or shining.
reflect	When light bounces off objects so they can be seen.
natural	Existing in nature; not made or caused by humankind.
artificial	Produced by human beings rather than occurring naturally.
shadow	A dark area or shape produced when light is blocked.
opaque	A material that does not let light through.
translucent	A material allowing some light, but not detailed shapes, to pass through.
transparent	A material allowing all light to pass through so that objects behind can be distinctly seen.